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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|----------------------------|---------------------|----------------------|-------------------------|------------------|
| 09/967,093 | 09/28/2001 | Kirk D. Brannock | 042390.P11898 | 6662 |
| 7590 06/13/2005 | | | EXAMINER | |
| R. Alan Burne | •• | ZHEN, WEI Y | | |
| Seventh Floor | KOLOFF, TAYLOR & Z. | ART UNIT | PAPER NUMBER | |
| 12400 Wilshire | Boulevard | 2191 | | |
| Los Angeles, CA 90025-1026 | | | DATE MAILED: 06/13/2005 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application No. | Applicant(s) | | | | |
|---|---|--|---|--------|--|--|--|
| Office Action Summary | | | | | | | |
| | | 09/967,093 | BRANNOCK ET | AL. | | | |
| | | Examiner | Art Unit | | | | |
| | | Wei Y. Zhen | 2191 | 44 | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | | | |
| THE N - Exten after: - if the - if NO - Failui Any n | DRTENED STATUTORY PERIOD FOR REPL'MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing of patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, however, y within the statutory minimu will apply and will expire SIX , cause the application to be | may a reply be timely filed n of thirty (30) days will be considered time (6) MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133). | | | | |
| Status | | | | | | | |
| 1)⊠ | Responsive to communication(s) filed on <u>08 A</u> | pril 2005. | | | | | |
| • | This action is FINAL . 2b)⊠ This action is non-final. | | | | | | |
| 3)□ | ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | | |
| | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | |
| Dispositi | on of Claims | | | | | | |
| 5)□ 6)⊠ 7)⊠ | Claim(s) 1-29 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-6,8-13,15-25 and 27-29 is/are rejected. Claim(s) 7,14 and 26 is/are objected to. Claim(s) are subject to restriction and/or election requirement. | | | | | | |
| Applicati | on Papers | | | | | | |
| 10)□ | The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex | epted or b) object drawing(s) be held in a tion is required if the di | abeyance. See 37 CFR 1.85(a). rawing(s) is objected to. See 37 C | • | | | |
| Priority u | nder 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | |
| 2) Notice 3) Inform Paper | e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date | Pap 5) | erview Summary (PTO-413) er No(s)/Mail Date ice of Informal Patent Application (PT er: | O-152) | | | |

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DETAILED ACTION

- 1. This office action is in response to the RCE filed on 4/8/2005.
- 2. Claims 1-29 are pending.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6, 8-13, 15-25, 27-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishii et al, U.S. Patent No. 5,835,761 (art of record) in view of Reha et al, U.S. Patent No. 6,282,709.

As per claim 1, Ishii discloses

writing updated firmware data that is to replace the existing portion of platform firmware data to a firmware storage device (col. 3 lines 22-27);

and atomically modifying firmware configuration data to indicate the updated firmware data is to be used in place of the existing portion of platform firmware data that is being updated such that only all of the original portion of platform firmware data are valid prior to the atomic modification of the firmware configuration data and only the updated firmware data are valid after the atomic modification to the firmware configuration data (col. 3 lines 22-55, col. 9 lines 30-67, and col. 10 lines 24-36).

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Ishii does not disclose writing updated version in which the existing portion of firmware data are stored.

Reha et al discloses storing updated version in which the existing software are stored (col. 6 lines 5-15).

Therefore, it would have been obvious to one having ordinary skill in the art to incorporate the teaching of Reha et al into Ishii to writing updated version in which the existing portion of firmware data are stored because one would want a simple way to compare the version of the software.

As per claim 2, Ishii et al discloses

performing an integrity check of the updated firmware data to verify that the updated firmware data is valid (col. 13 lines 41-65).

As per claim 3, Ishii et al discloses

the updated firmware data is written to the firmware storage device in a manner in which the updated firmware data is invisible to a firmware management system used to access firmware data stored on the firmware storage device until the atomic modification of the firmware configuration data has been made (col. 10 lines 24-36).

As per claim 4, Ishii et al discloses

enabling a full recovery of the existing portion of firmware data that is to be updated during an upgrade process in response to a system anomaly that prevents completion of the

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upgrade process (col. 3 lines 39-55 and col. 9 lines 15-30).

As per claim 5, Ishii et al discloses deleting the existing portion of platform firmware after it has been upgraded (col. 3 lines 22-55, col. 9 lines 30-67, and col. 10 lines 24-36).

As per claim 6, Ishii et al discloses wherein the original platform firmware data and the updated firmware data respectively comprise one or more firmware files, each firmware file including header data that are modified during the update process to track a current state of that file (col. 9 lines 41-59).

As per claim 8, Ishii et al discloses

wherein the firmware storage device comprises a flash memory device (Fig. 5).

As per claim 9, Ishii et al discloses

creating a temporary file (col. 10 lines 4-5); writing data corresponding to a plurality of updated platform firmware files comprising new versions of the plurality of existing platform firmware files to the temporary file (col. 3 lines 22-27); and atomically modifying platform firmware file configuration information in the firmware storage device to indicate that the updated platform firmware files are to be used in place of the existing platform firmware files such that only all of the original platform firmware files or only all of the updated platform firmware files are valid at any point in time during an update process (col. 3 lines 22-55, col. 9 lines 30-67, and col. 10 lines 24-36).

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Ishii does not disclose the file is created in a firmware storage device in which the existing platform firmware are stored.

Reha et al discloses storing updated version in which the existing software are stored (col. 6 lines 5-15).

Therefore, it would have been obvious to one having ordinary skill in the art to incorporate the teaching of Reha et al into Ishii to have the file be created in a firmware storage device in which the existing platform firmware are stored because one would want a simple way to compare the version of the software.

As per claim 10, Ishii et al discloses each platform firmware file comprises a file header and a data area in which platform firmware data corresponding to that file is written, and wherein each file header includes a plurality of state bits that are used to track a current state of each platform firmware file during the update process (col. 9 lines 41-59).

As per claim 11, Ishii et al discloses the temporary file is created by creating a file header that identifies the temporary file includes a data area that is sized to hold all of the updated platform firmware files, said data area being mapped to a memory area on a firmware storage device that is used to store the existing and updated platform firmware files (col. 3 lines 22-55, col. 9 lines 30-67, and col. 10 lines 24-36).

As per claim 12, Ishii et al discloses changing a state bit in the temporary file's file header to indicate that the temporary file is invalid after data corresponding to the updated platform firmware files are written to the data area of the temporary file (col. 9 lines 41-59).

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As per claim 13, Ishii et al discloses a file system is used to access the platform firmware files and the updated firmware files appear invisible to the file system prior to when the state bit is changed and become visible to the file system after the state bit is changed (col. 10 lines 24-36).

As per claim 15, Ishii et al discloses performing an integrity check of the updated platform firmware files to verify that the updated firmware files are valid prior to atomically modifying the platform firmware file configuration information to indicate that the updated platform firmware files are to be used in place of the existing platform firmware (col. 13 lines 41-65).

As per claim 16, Ishii et al discloses enabling a full recovery of the existing platform firmware files that are to be updated during the upgrade process in response to a system anomaly that prevents completion of the upgrade process (col. 3 lines 39-55 and col. 9 lines 15-30).

As per claim 17, Ishii et al discloses setting the state bits in each file header of the original platform firmware files to indicate the file is deleted after the upgrade process has been complete (col. 3 lines 22-55, col. 9 lines 30-67, and col. 10 lines 24-36).

Claims 18, 19, 20 are rejected for the reason set forth in the rejections of claims 1, 2, 4 respectively.

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Claims 21-25, 27-29 are rejected for the reason set forth in the rejections of claims 9-13, 15-17 respectively.

Response to Arguments

4. Applicant's arguments have been fully considered but they are not persuasive.

Applicant's argument:

1) Ishii does not store both existing platform firmware files and updated platform firmware files in the same firmware storage device.

Examiner's response:

1) Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Applicant's argument:

2) Ishii does not disclose "atomically modifying platform firmware file configuration information in the firmware storage device to indicate that the updated platform firmware files are to be used in place of the existing platform firmware files such that only all of the original platform firmware files or only the updated platform firmware files are valid at any point in time during an update process"

Examiner's response:

2) Ishii clearly disclose this limitation at col. 3 lines 22-55, col. 9 lines 30-67, and especially at col. 10 lines 24-36, "...once copied...only the copied ...programme...are accessed".

Applicant's argument:

3) Ishii does not disclose updating multiple platform firmware files as recited in claim 9.

Examiner's response:

3) Ishii discloses updates programs which needs to be updated. It is inherent that the

programs could be either the entire program or a multiple files depends on whether which one

needs to be updated or not.

Allowable Subject Matter

5. Claims 7, 14, 26 are objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Wei Y Zhen whose telephone number is (571) 272-3708. The

examiner can normally be reached on Monday-Friday, 8 a.m. - 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tuan Dam can be reached on (571) 272-3695. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Wei Zhen Primary Examiner 6/7/2005

WEI Y. ZHEN BRIMARY EXAMINER